

# COPY

Sheet 1 of 5

Form PTO-1449 (Reproduced)		Docket Number (Optional) <b>CH2756 DIV</b>		Application Number <b>10/735462</b> <del>09/795,933</del>	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Applicant <b>JAMES M. HOWELL ET AL.</b>			
		Filing Date <b>12/12/2003</b> <b>FEBRUARY 28, 2001</b>		Group Art Unit <del>1774</del> <b>1732</b>	

  

U. S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LBT	3,350,871	11/07/67	Pierce et al.	57	140	_____
	3,681,188	08/01/72	M. E. Harris	161	173	_____
	3,816,486	06/11/74	O. R. Vail	260	75 R	_____
	3,584,103	06/08/71	M. E. Harris	264	168	_____
	4,475,330	10/09/84	Kimura et al.	57	245	_____
	5,340,909	08/23/94	Doerr et al.	528	276	_____
	5,645,782	07/08/97	Howell et al.	264	103	_____
	5,782,935	07/21/98	Hirt et al.	8	512	_____
	5,885,909	03/23/99	Rudisill et al.	442	82	_____
V	6,023,926	02/15/00	W. J. Flynn	57	210	_____
LBT	6,033,777	03/07/00	W. Best	428	364	_____

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
LBT	0 049 412 B1	04/10/85	EP	_____	_____	_____	_____
	0 745 711 A1	12/04/96	EP	_____	_____	_____	_____
	1 016 741 A1	07/05/00	EP	_____	_____	_____	_____
V	1,075,689	07/12/67	Great Britain	_____	_____	_____	_____
LBT	1,165,312	09/24/69	Great Britain	_____	_____	_____	_____

  

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
LBT	H. L. Traub, "Synthese und textilchemische Eigenschaften des Poly-Trimethyleneterephthalats", <i>Dissertation Universitat Stuttgart</i> , (1994) (English Translation),
LBT	Katsuhiko et al., "Elastic Moduli of Poly(trimethylene terephthalate) in the Crystalline Region", <i>Zairyo (Material)</i> , 35, No. 396, 106-110, (1986),
LBT	W. Oppermann et al., "Fibers Made of Poly(trimethylene terephthalate)", <i>Dornbirn</i> , (1995),

  

EXAMINER <b>LEO B. TENTONI</b>	DATE CONSIDERED <b>02/18/2005</b>
-----------------------------------	--------------------------------------

  

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# COPY

Sheet 2 of 5

Form PTO-1449  
(Reproduced)

Docket Number (Optional)

**CH2756 DIV**

Application Number

**10/735462**

~~09/795,933~~

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
(Use several sheets if necessary)

Applicant

**JAMES M. HOWELL ET AL.**

Filing Date **12/12/2003**

~~FEBRUARY 28, 2001~~

Group Art Unit

~~1774~~ **1732**

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LBT	3,584,103	5-1-69	Harris	264	168	_____
	3,671,379	3-9-71	Evans et al.	161	173	_____
	5,250,245	2-10-93	Collins et al.	264	103	_____
	6,109,015	7-7-98	Roark et al.	57	290	_____
	3,984,600	10/76	Kawase et al.	428	364	_____
	5,662,980	9/97	Howell et al.	428	97	_____
	5,968,640	10/99	Aneja	428	364	_____
↓	6,071,612	6/2000	Roderiguez et al.	428	364	_____
LBT	4,475,300	10/84	Kimura et al.	428	364	_____

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
LBT	1,254,826	11/24/71	Great Britain	_____	_____		
	1,408,094	10/01/75	Great Britain	_____	_____		
	5-71013 A	03/23/93	Japan	_____	_____	X	
↓	11-12824 A	01/19/99	Japan	_____	_____	X	
LBT	11-93026 A	04/06/99	Japan	_____	_____	X	

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

LBT	H. L. Traub et al., "Mechanical Properties of Fibers Made of Polytrimethylene Terephthalate", <i>Chemical Fibers International (CFI)</i> , 45, 110-111, (1995),
LBT	H. L. Traub, "Dyeing Properties of Poly(Trimethylene Terephthalate) Fibres, <i>Melliand</i> , (1995),
LBT	Degussa Trade Literature (Estimated 1994),

EXAMINER

**LEO B. TENTONI**

DATE CONSIDERED

**02/18/2005**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

COPY

Sheet 3 of 5

Form PTO-1449  
(Reproduced)
**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
(Use several sheets if necessary)

Docket Number (Optional)

CH2756 DIV

Application Number 10/735462  
~~09/795,933~~

Applicant

JAMES M. HOWELL ET AL.

Filing Date 12/12/2003

~~FEBRUARY 28, 2001~~

Group Art Unit

1774 1732

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LBT	6,066,714	5/23/00	Putzig	528	279	<del>CIP of USSN 09/062,463, 4/17/98</del>

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
LBT	11-93031 A	04/06/99	Japan			X	
	11-93049 A	04/06/99	Japan			X	
	11-100721 A	04/13/00	Japan			X	
	11-107036 A	04/20/99	Japan			X	
	11-107038 A	04/20/99	Japan			X	
	11-107081 A	04/20/99	Japan			X	
	11-107154 A	04/20/99	Japan			X	
	11-172526 A	06/29/99	Japan			X	
	11-181626 A	07/06/99	Japan			X	
	11-181650 A	07/06/99	Japan			X	
	11-189920 A	07/13/99	Japan			X	
	11-200143 A	07/27/99	Japan			X	
	11-200175 A	07/27/99	Japan			X	
✓	11-229276 A	08/24/99	Japan			X	
LBT	98/23662 A2	06/04/98	WIPO				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

LBT	U.S. Patent Application No. 09/062,463, filed 04/17/98 (Docket# CH2635)
	U.S. Patent Application No. 09/273,288, filed 3/19/99 (Docket# CL1283)
	U.S. Patent Application No. 09/708,209, filed 08/11/00 (Docket# RD7850 non-provisional)
	U.S. Patent Application No. 60/165,373, filed 11/12/99 (Docket# RD7850 PROVISIONAL)
✓	U.S. Patent Application No. 09/500,340, filed 02/08/00 (Docket# RD7160)
LBT	U.S. Patent Application No. 09/501,700, filed 02/11/00 (Docket# RD7590)

EXAMINER

LEO B. TENTONI

DATE CONSIDERED

02/18/2005

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# COPY

Sheet 4 of 5

Form PTO-1449 (Reproduced)		Docket Number (Optional) <b>CH2756 DIV</b>		Application Number <b>10/735462</b> <del>09/795,933</del>	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Applicant <b>JAMES M. HOWELL ET AL.</b>			
		Filing Date <b>12/12/2003</b> <del>FEBRUARY 28, 2001</del>		Group Art Unit <del>1774</del> <b>1732</b>	

  

U. S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
LBT	98/27168 AI	06/25/98	WIPO				
	99-11709 AI	03/11/99	WIPO			X	
	99-11845 AI	03/11/99	WIPO			X	
	99/39041 AI	01/28/99	WIPO			X	
	00/22210 AI	04/20/00	WIPO			X	
	2000-26301 AI	05/11/00	WIPO			X	
	00/29653 AI	05/25/00	WIPO			X	

  

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
LBT	U.S. Patent Application No. 09/502,641, filed 02/11/00 (Docket# RD7605)
	U.S. Patent Application No. 09/503,599, filed 02/11/00 (Docket# RD7585)
	U.S. Patent Application No. 09/505,789, filed 02/17/00 (Docket# CL1400)
	U.S. Patent Application No. 09/518,759, filed 03/03/00 (Docket# DP6535)
	U.S. Patent Application No. 09/795,518, filed 02/28/01 (Docket# DP6535 CIP)
	U.S. Patent Application No. 09/795,520, filed 02/28/01 (Docket# DP6535 CIP1)
LBT	U.S. Patent Application No. 09/587,886, filed 06/06/00 (Docket# AD6617)

  

EXAMINER <b>LEO B. TENTONI</b>	DATE CONSIDERED <b>02/18/2005</b>
-----------------------------------	--------------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# COPY

Sheet 5 of 5

Form PTO-1449 (Reproduced)		Docket Number (Optional) <b>CH-2756 DIV</b>		Application Number <b>10/735462</b> <del>09/795,933</del>	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Applicant <b>JAMES M. HOWELL ET AL.</b>			
		Filing Date <b>12/12/2003</b> <del>FEBRUARY 20, 2001</del>		Group Art Unit <b>1774 1732</b>	

  

U. S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
LBT	8-232117 A	9/2-23-9596	Japan			X	
	8-311177 A	11/5-16-9596	Japan			X	
	9-78373 A	3/9-7-9597	Japan			X	
	11-93036 A	4/9-12-9799	Japan			X	
	11-93037 A	4/9-12-9799	Japan			X	
	11-93038 A	4/9-12-9799	Japan			X	
	11-107081 A	4/10-2-9799	Japan			X	
	11-172536 A	6/9-9-9899	Japan			X	
V	52-8123 A	1/7-5-7577	Japan			X	
LBT	52-8124 A	1/7-5-7577	Japan			X	
	<del>56-200227</del>	<del>12-14-81</del>	<del>Japan</del>			<del>X</del>	
LBT	57-193534 A	11/4-28-8182	Japan			X	
LBT	58-104216 A	6/12-14-8183	Japan			X	
	<del>1996-067992</del>	<del>12-19-96</del>	<del>Korea</del>			<del>X</del>	
LBT	WO 00/39374 A1	7/12-27-9900	WIPO			X	

  

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		

  

EXAMINER <b>LEO B. TENTONI</b>	DATE CONSIDERED <b>02/18/2005</b>
-----------------------------------	--------------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

→ +

COPY

PTC/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet	1
-------	---

1

9

2

**Complete if Known**

Application Number

~~09/795,993~~ 10/735 462

Filing Date

~~FEBRUARY 28, 2001~~ 12/12/2003

**First Named Inventor**

**JAMES M. HOWELL**

### Group Art Unit

~~1774~~ 1732

**Examiner Name**

~~EDWARDS (PARENT) TENTONI~~

Attorney Docket Number

CH-2756DIV

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

LEO B. TENTONI

Date \_\_\_\_\_

**Considered**

02/18/2005

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 202**

# COPY

Please type a plus sign (+) inside this box →



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0851-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	<del>09/795,033</del> 10/735 462
		Filing Date	FEBRUARY 28, 2004 12/12/2003
		First Named Inventor	JAMES M. HOWELL
		Group Art Unit	4774 1732
		Examiner Name	EDWARDS (PARENT) TENTONI
Sheet 2 of 2	Attorney Docket Number	CH-2756DIV	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LBT		International Search Report dated August 13, 2001 from counterpart PCT/US01/06565.	—
LBT		Patent Abstracts of Japan - JP 2001 - 020136 (from Japanese Patent Office Web Site) (1/23/01).	—
LBT		European Patent Office XP-002172707 - Abstract of WO 01/104393 (1/18/01).	—

Examiner Signature	LEO B. TENTONI	Date Considered	02/18/2005
--------------------	----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

→ +

COPY

BY O/SB/08A (08-0)

Approved for use through 10/31/2002. OMB 0851-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

**Complete if Known**

Application Number	<del>09/795,933</del> 10/735 462
Filing Date	<del>February 28, 2004</del> 12/12/2003
First Named Inventor	James M. Howell, et al.
Group Art Unit	1774 1732
Examiner Name	<del>Edwards (Parent)</del> TONTONI
Attorney Docket Number	CH-2756 US DIV

[illegible][illegible]

**Examiner  
Signature**

LEO B. TENTONI

Date Considered

02/18/2005

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 202**



**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

Substitute for form 1449/PTO

(Use as many sheets as necessary)

**Complete If Known**

<b>Application Number</b>	10/735,462
<b>Filing Date</b>	December 12, 2003
<b>First Named Inventor</b>	James M. Howell
<b>Art Unit</b>	<del>9765</del> 1732
<b>Examiner Name</b>	<del>Shawn R. Hurley</del> TENTONI
<b>Attorney Docket Number</b>	CH2756 US DIV2

[illegible]

Examiner Signature	LEO B. TENTONI	Date Considered	02/18/2005
-----------------------	----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

***If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.***